



FIG 1A

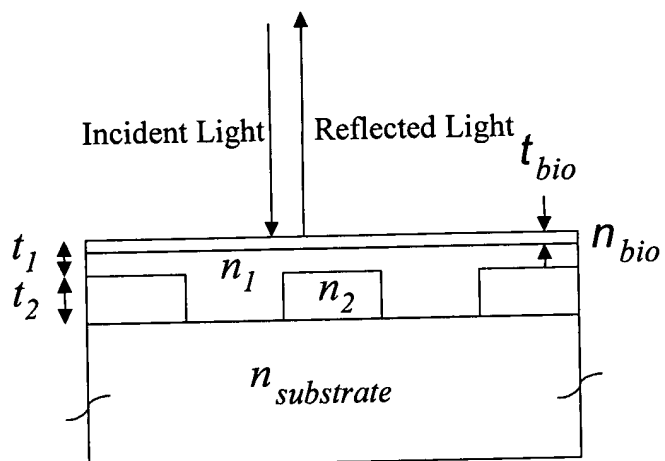


FIG. 1B

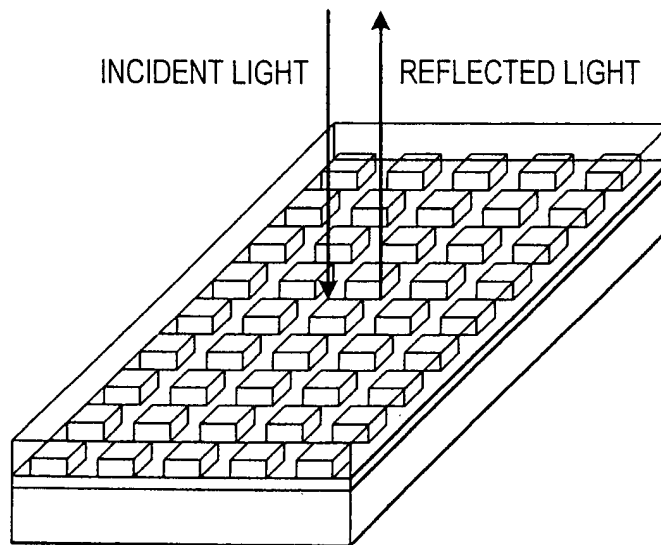


FIG. 2

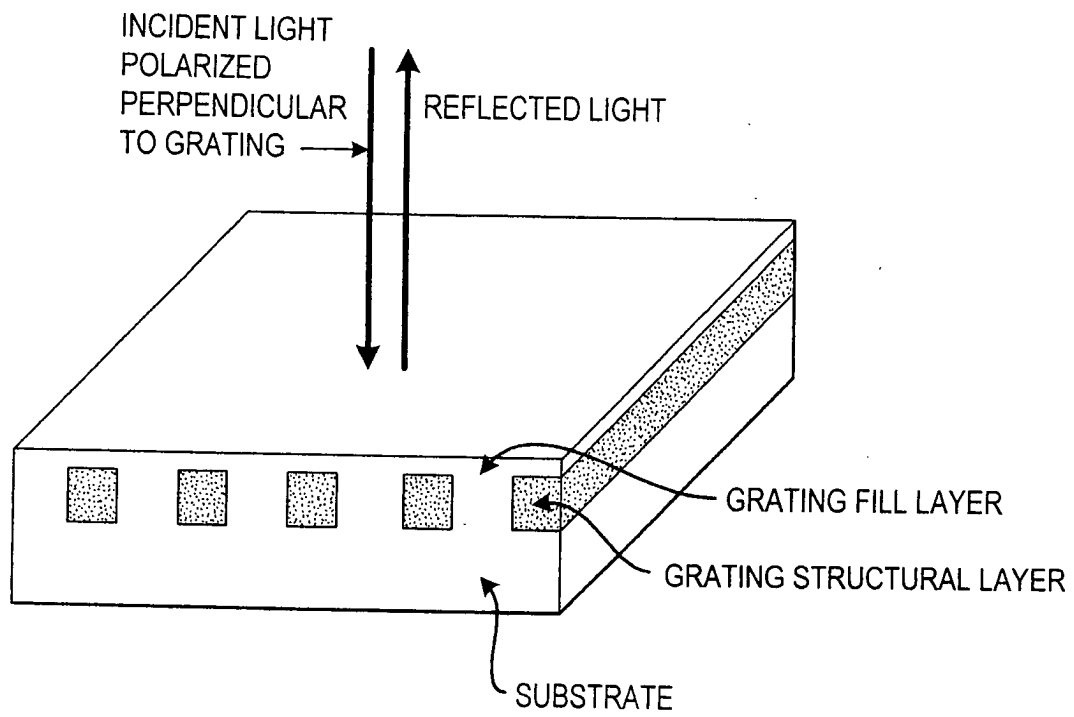


FIG. 5

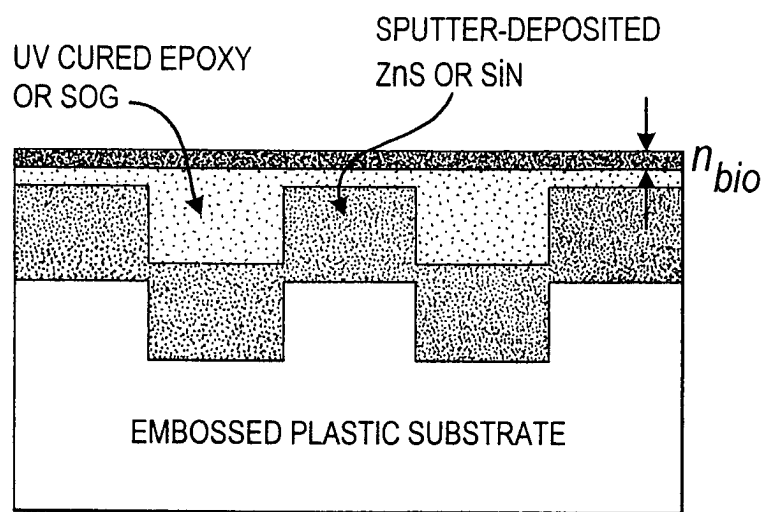


FIG. 9

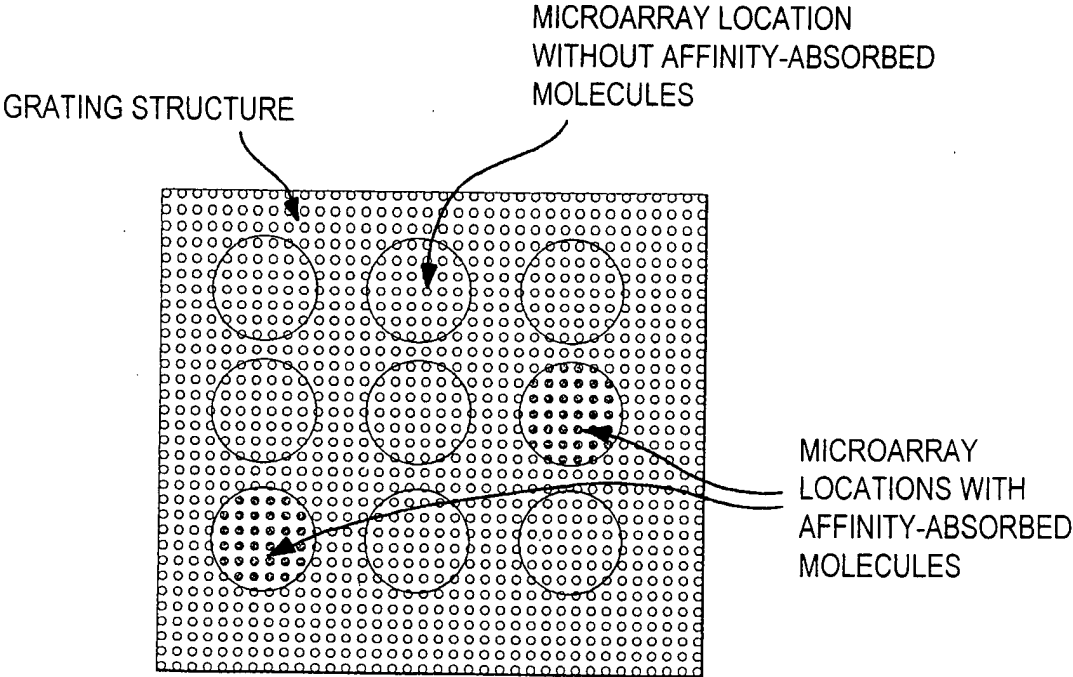
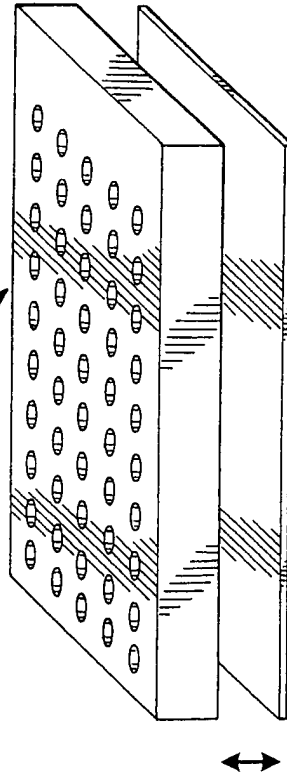


FIG. 10A

□ MICROTITER PLATE

PLASTIC BOTTOMLESS MICROTITER PLATE.

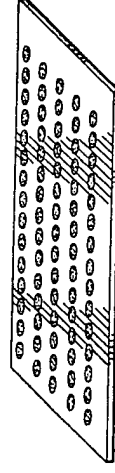
HOLES IN PLATE ARE OPEN FROM TOP TO BOTTOM



RESONANT REFLECTION BIOSENSOR SURFACE

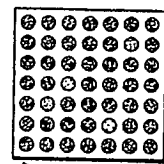
FIG. 10B

□ MICROTITER PLATE

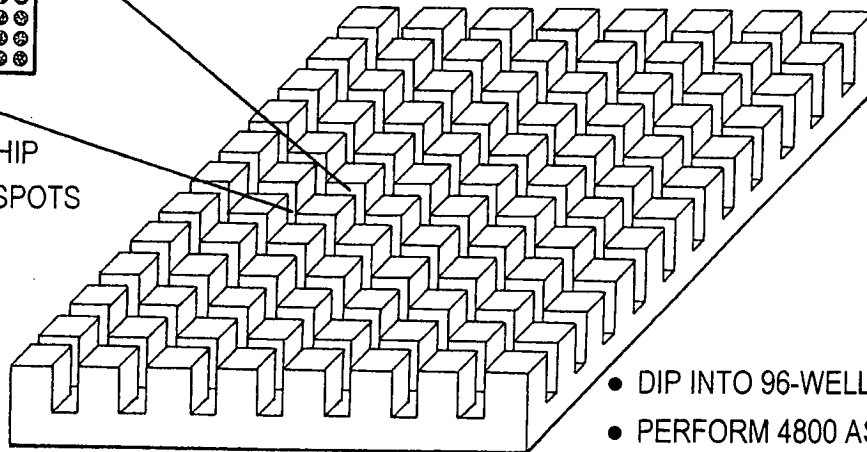


RESONANT REFLECTION
BIOSENSOR SURFACE

FIG. 11



1 mm² CHIP
WITH 50 SPOTS



- DIP INTO 96-WELL PLATE
- PERFORM 4800 ASSAYS

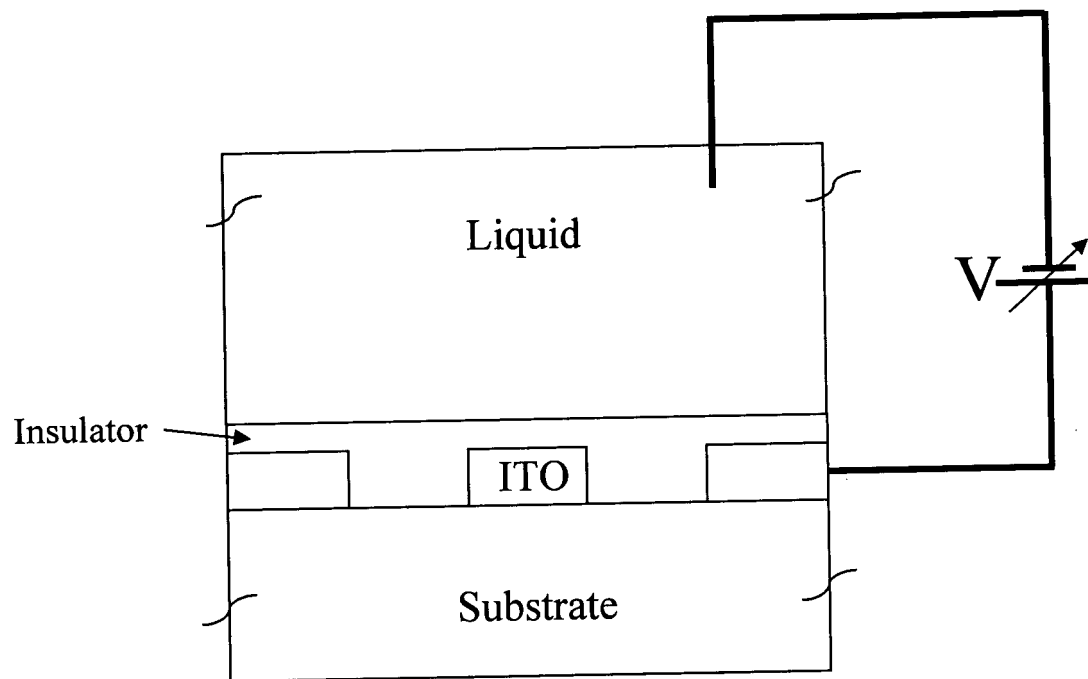


Figure 14

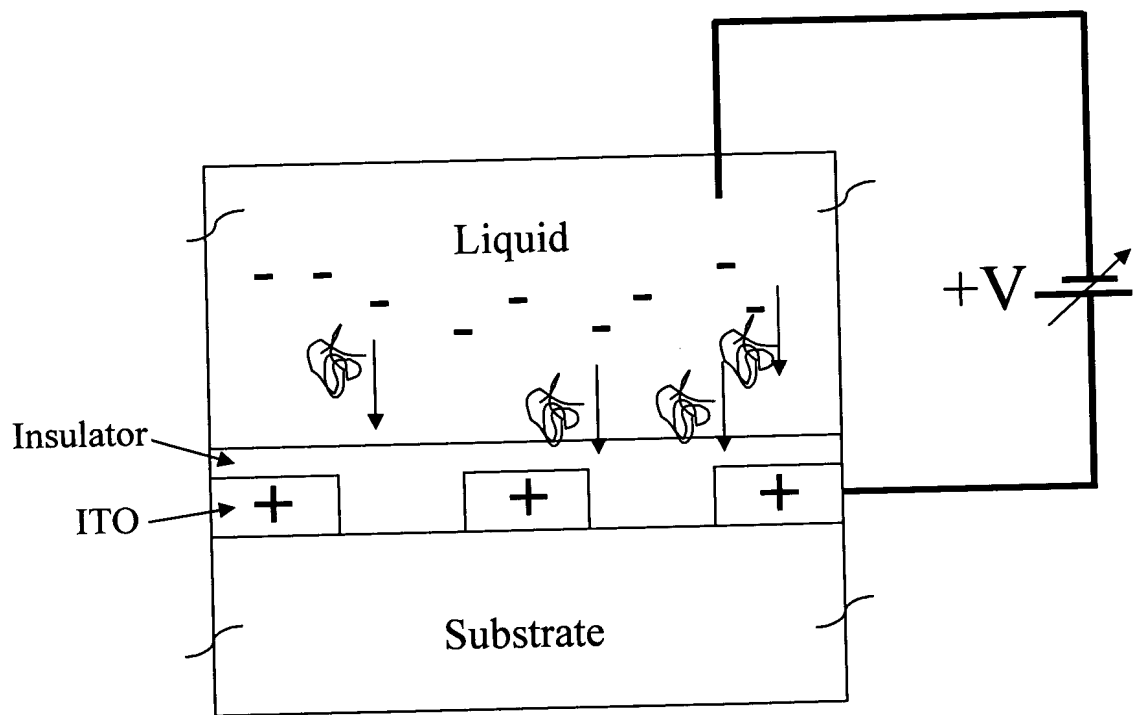


Figure 15

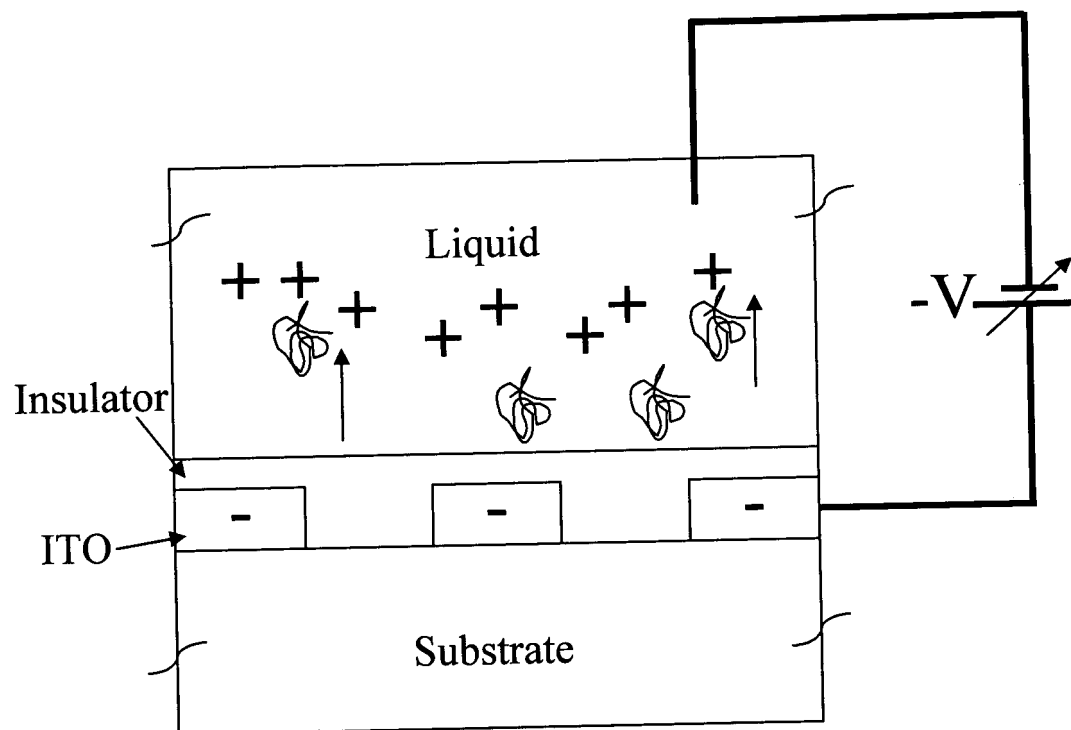
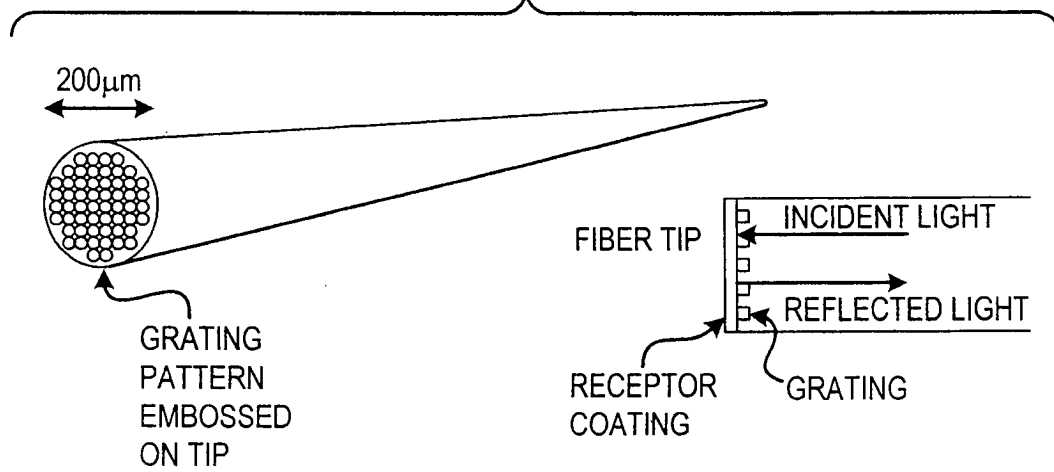


Figure 16

FIG. 17



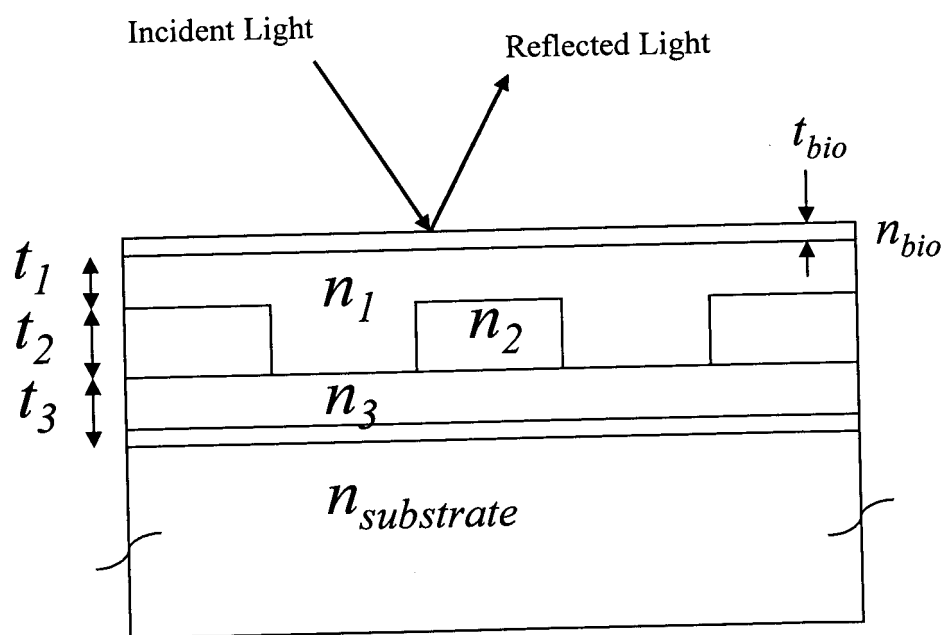


Figure 30

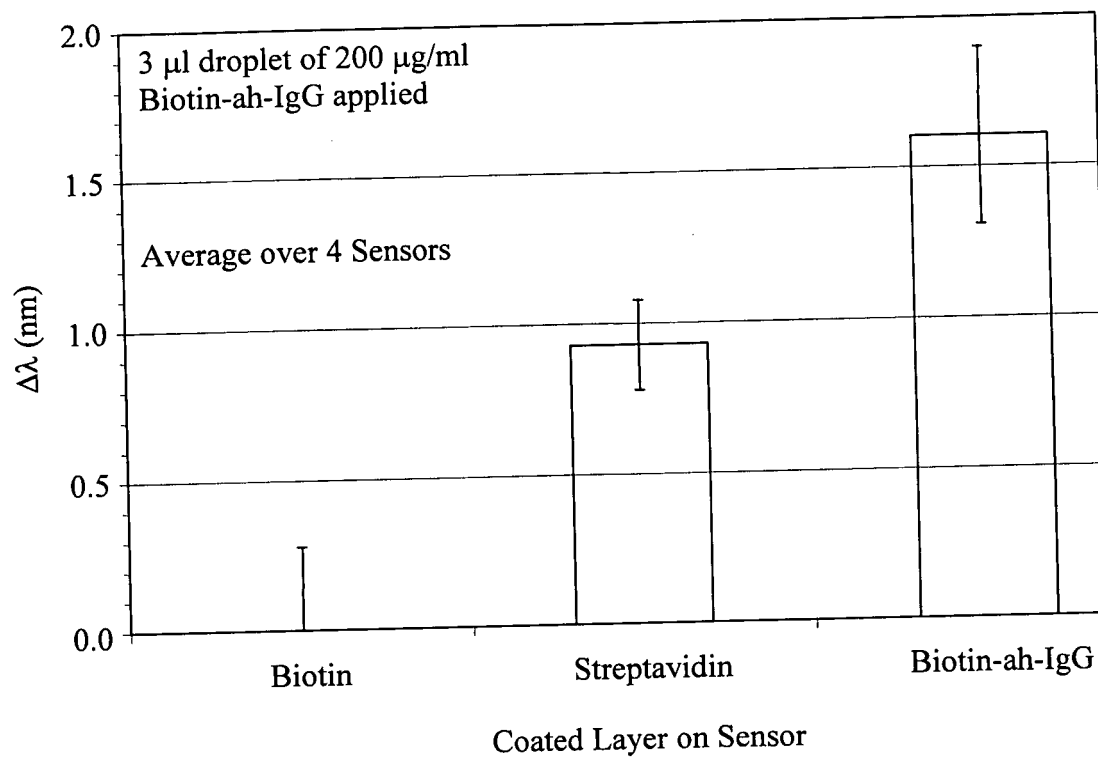


Figure 37A

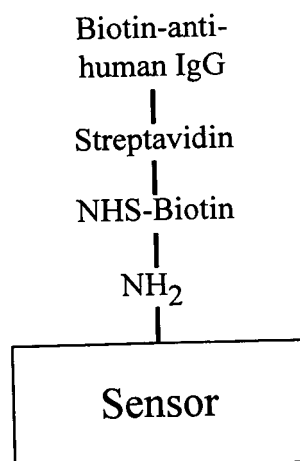


Figure 37B

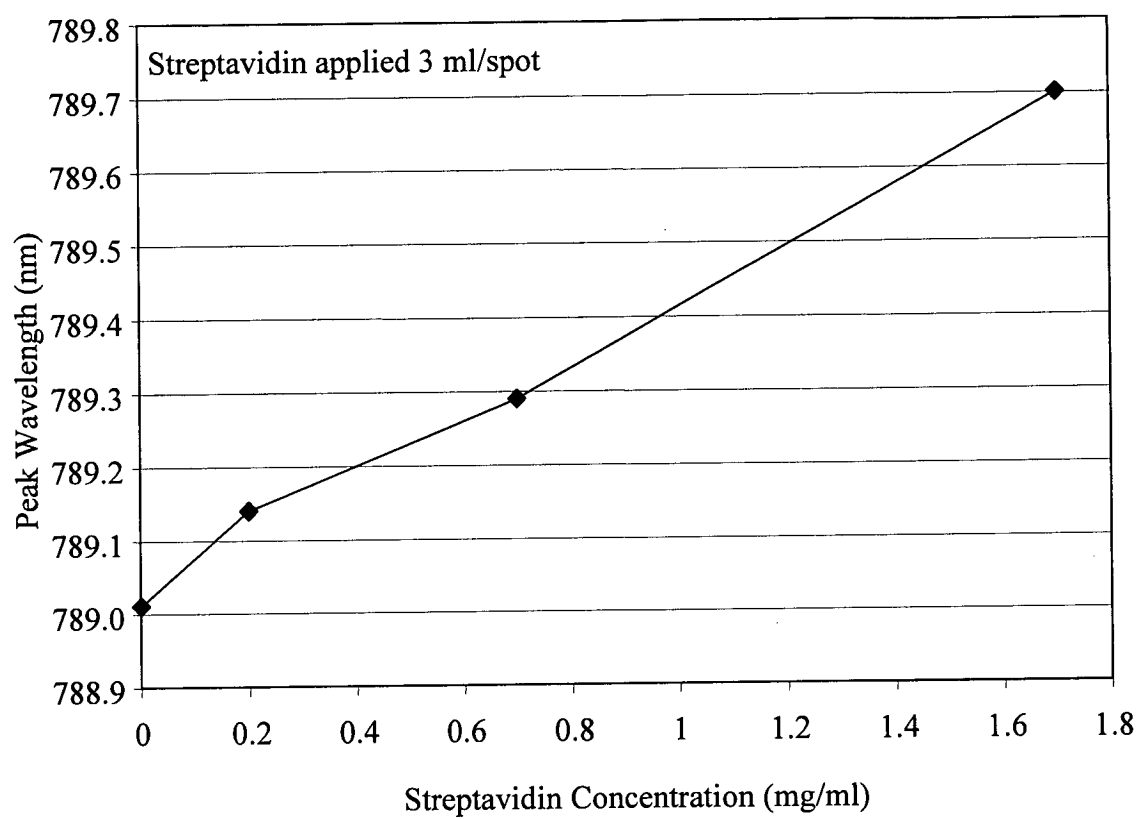


Figure 38A

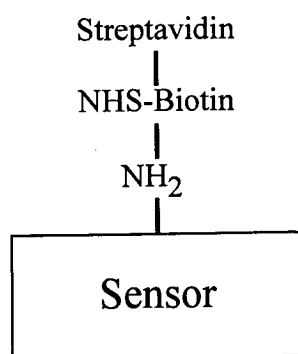


Figure 38B

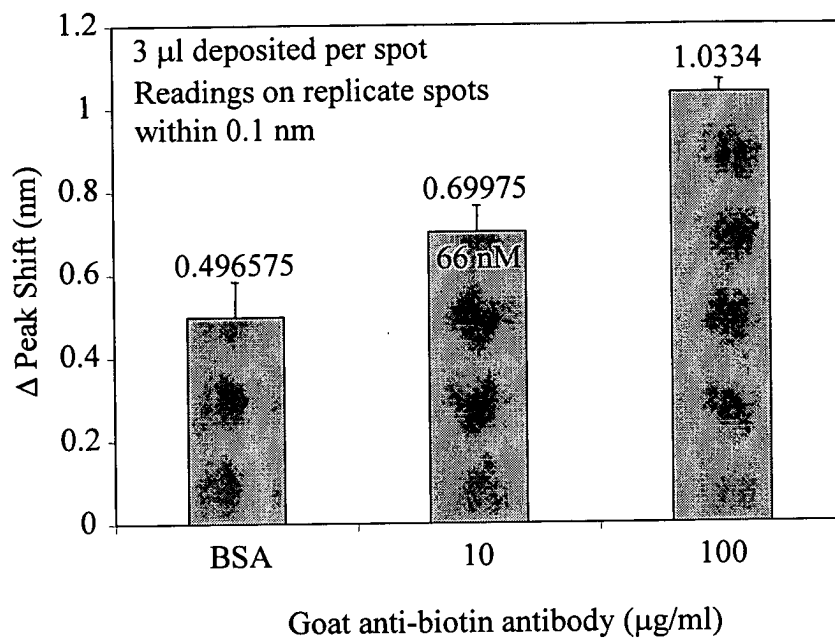


Figure 39A

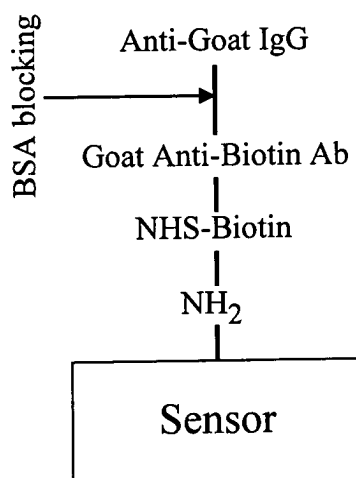


Figure 39B

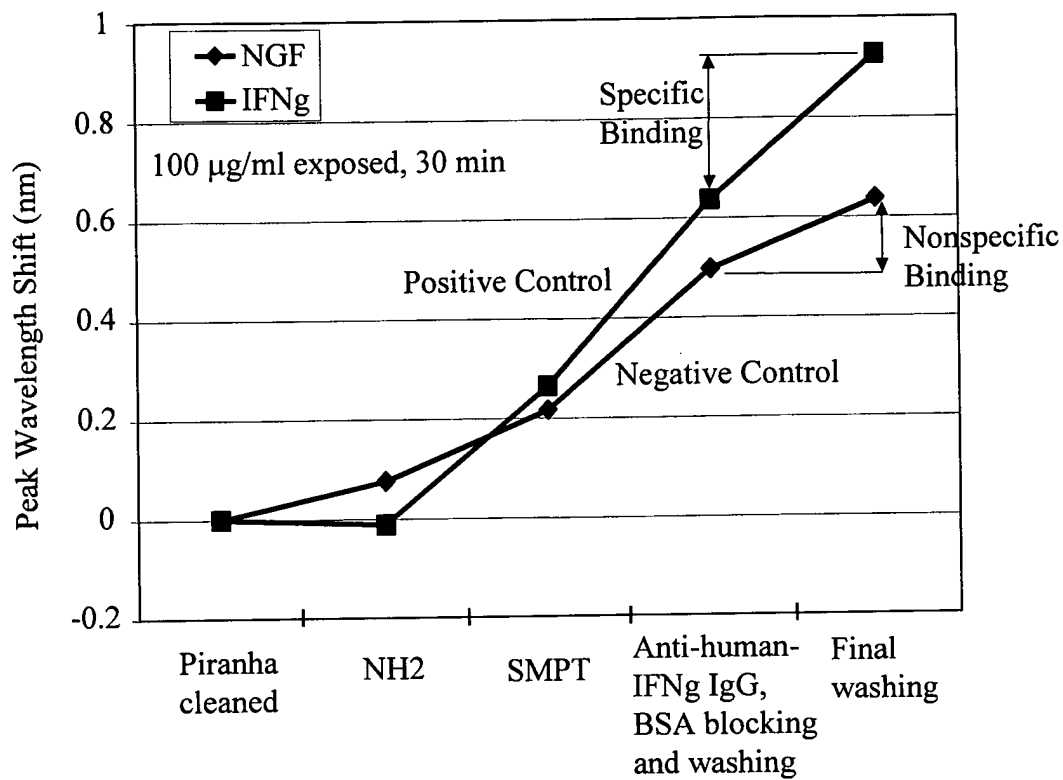


Figure 40A

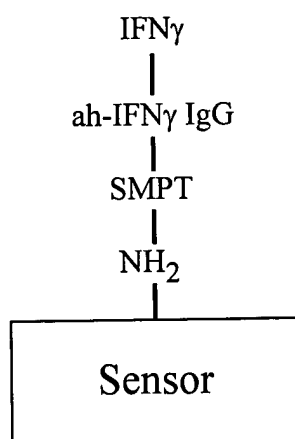


Figure 40B

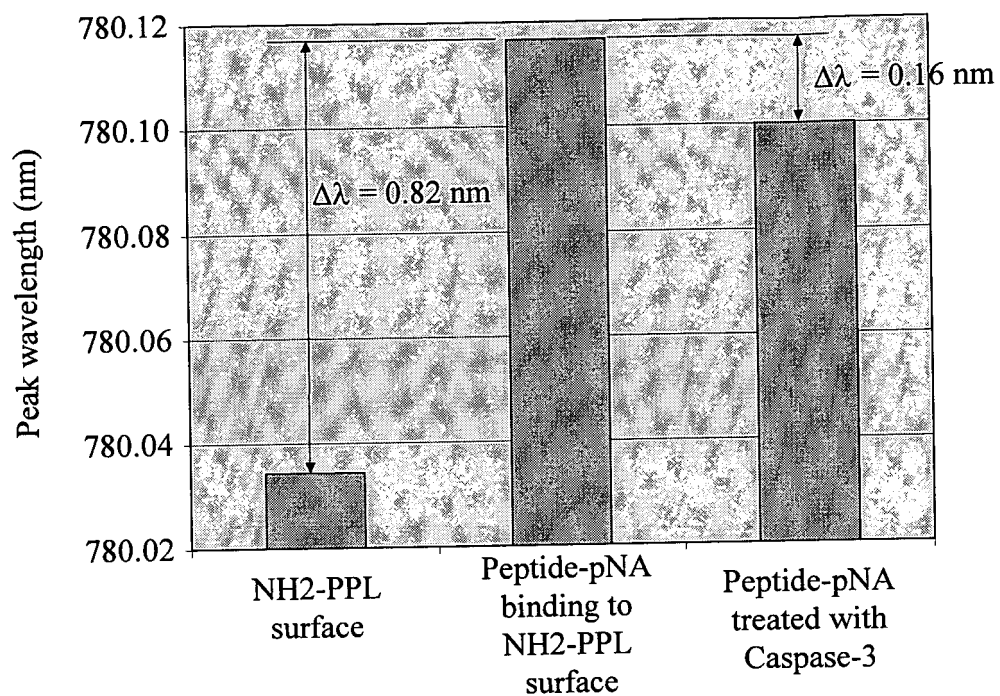


Figure 41A

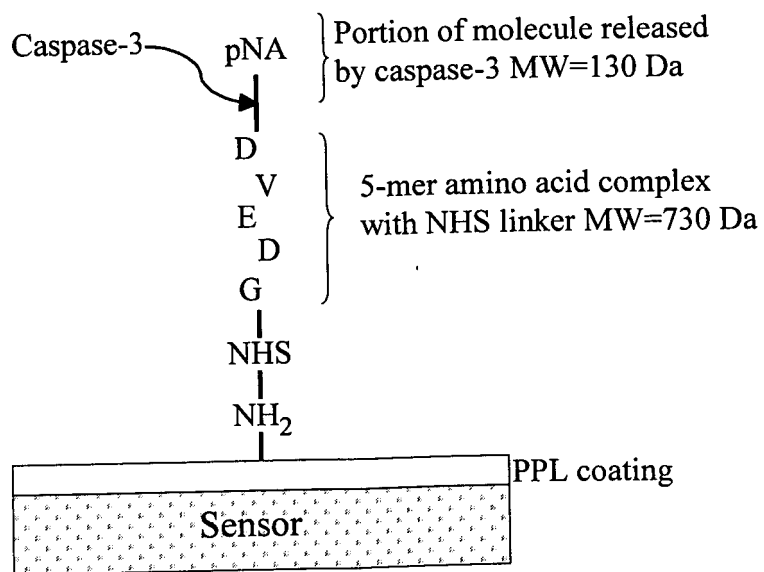


Figure 41B

Measured shifting of the resonant wavelength caused by the binding of various biomolecular layers.

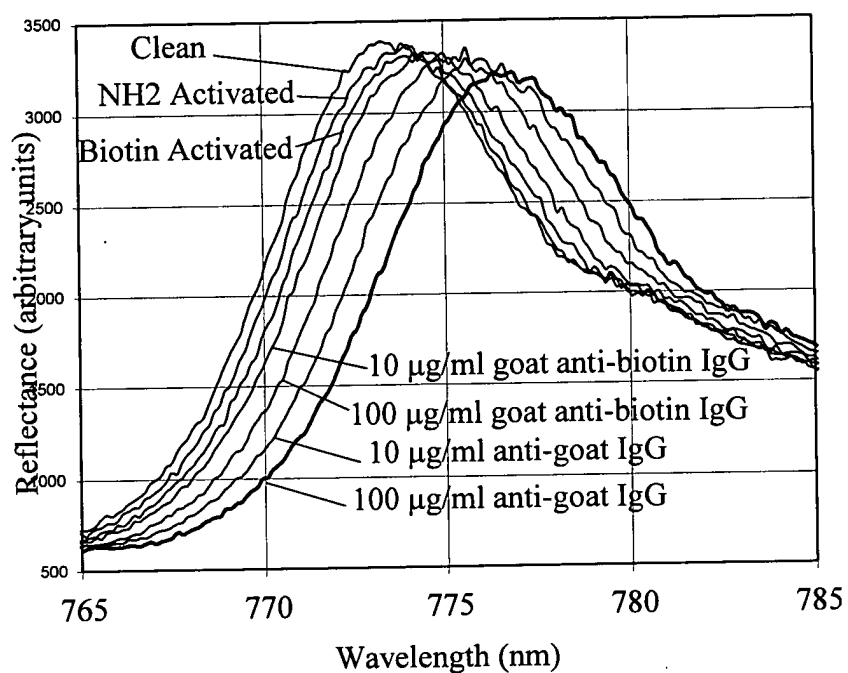


Figure 42A

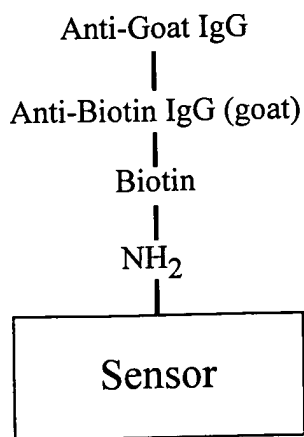


Figure 42B

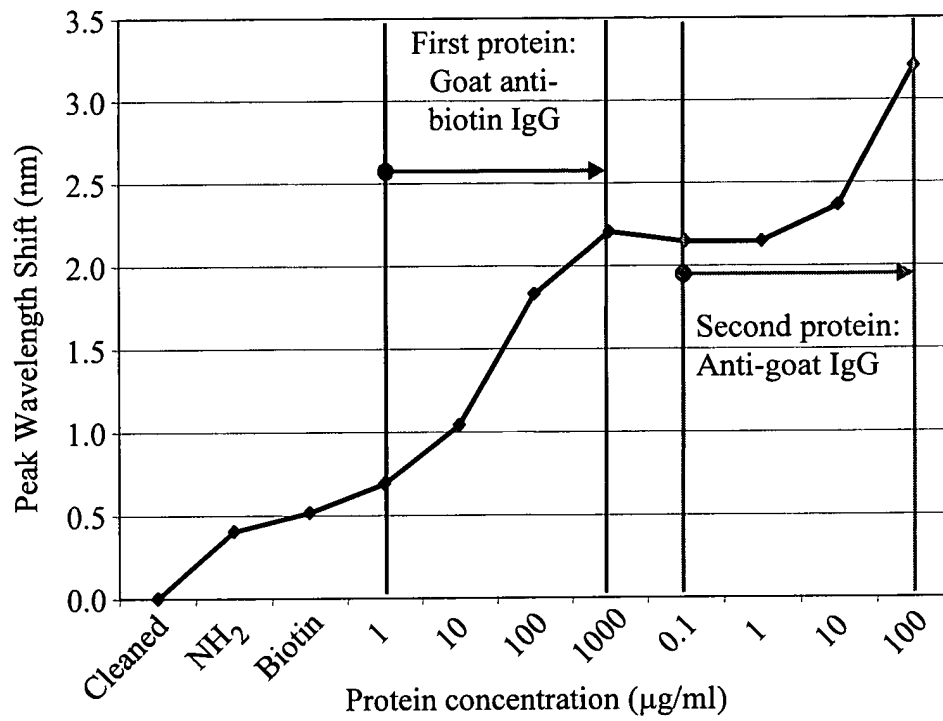


Figure 43A

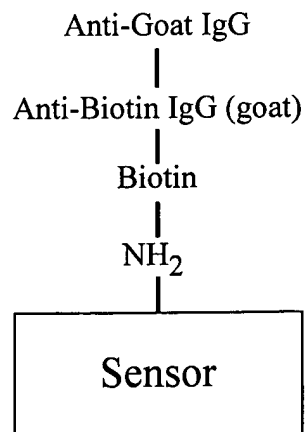


Figure 43B

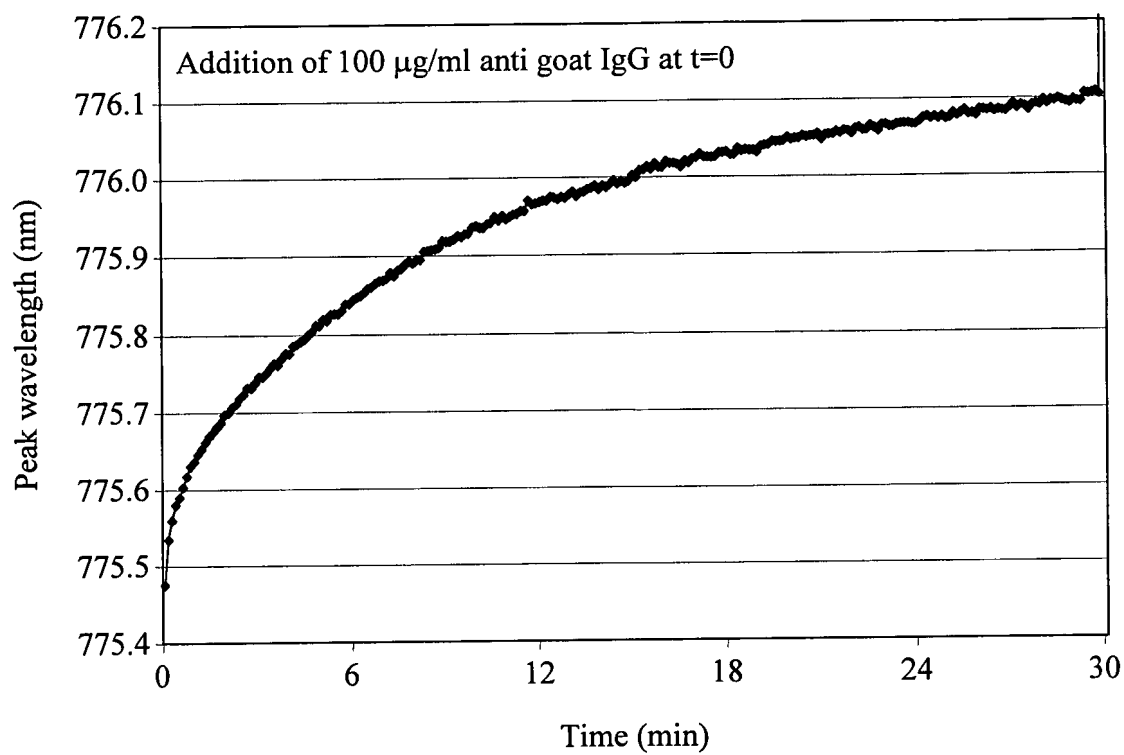


Figure 44A

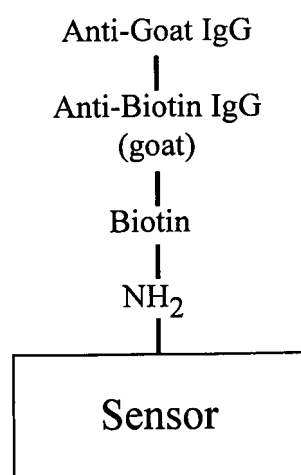


Figure 44B

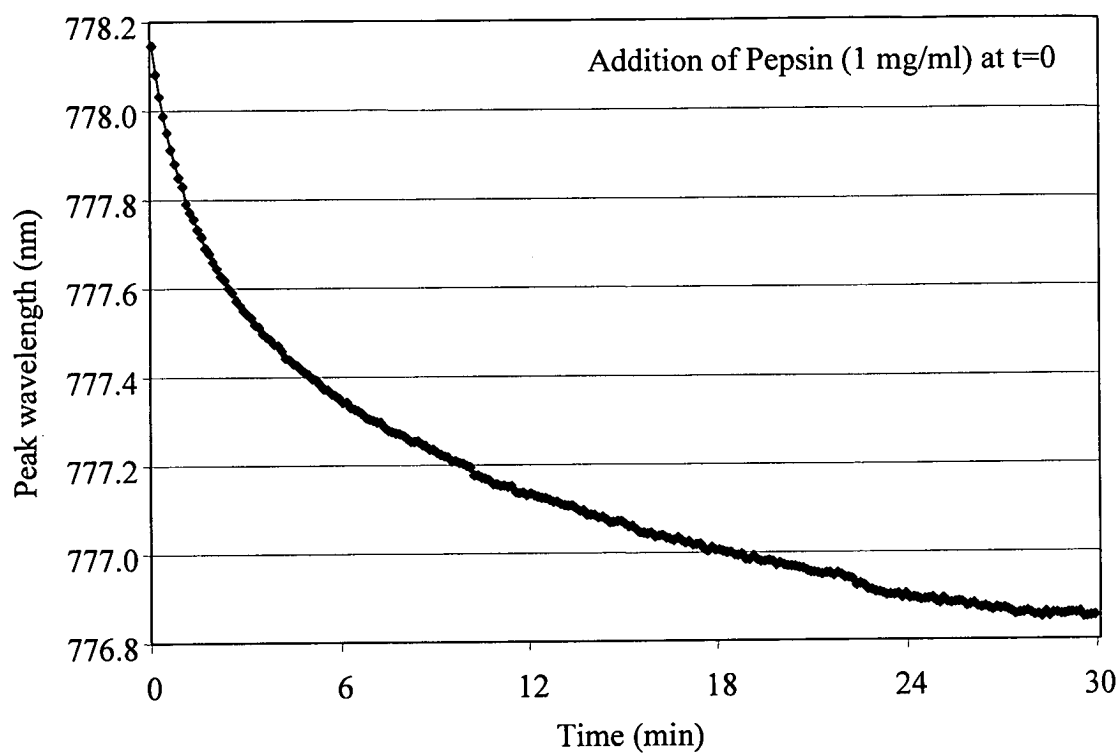


Figure 45A

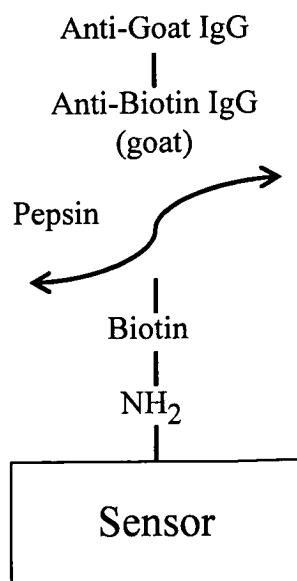
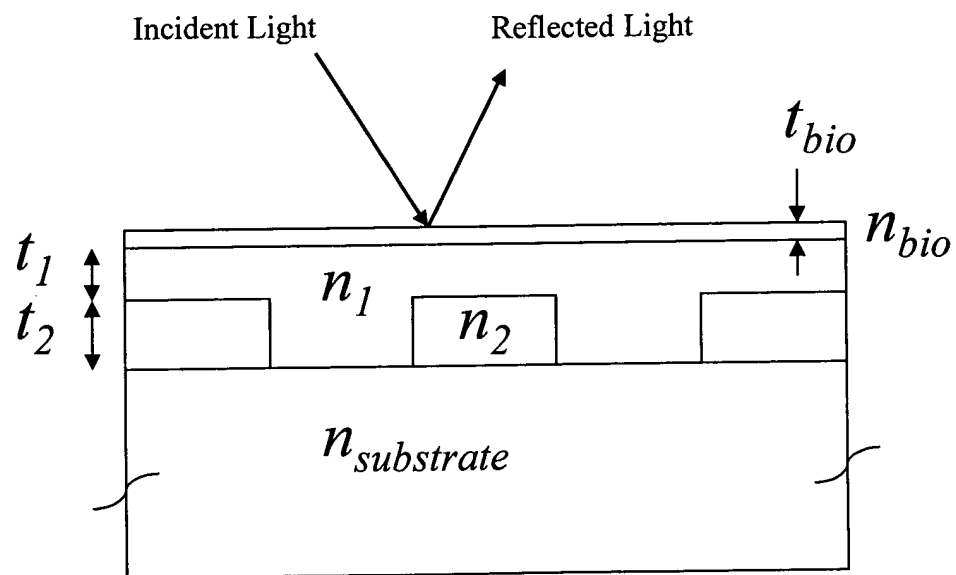


Figure 45B



Material 1 = Electrical Insulator (photoresist, epoxy, glass)
 Material 2 = Indium tin oxide conductor
 Substrate = Glass

Figure 48